

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A device (1) for controlling several inductive loads (111, 112), characterized in that it includes:
 - at least one first group of several control stages (321, 322) each having:
 - a bonding pad (331, 332) for an inductive load (321, 322);
 - a receive input (301, 302) for a conduction activate signal;
 - a switch (121, 122) including a control electrode connected to the receive input, and an output electrode connected to the bonding pad;
 - an enabling circuit (181, 182), measuring the voltage applied to the bonding pad (331, 332) and generating an enabling signal when this voltage reaches an enabling level;
 - a conduction re-activate circuit (2) common to the control stages of the group, limiting the voltage on the bonding pad of the control stages of the group to a common level that is higher than the enabling level of each control stage of the group and applying a conduction activate signal to the control electrode for the switch of one of the control stages when the enabling circuit of this control stage generates an enabling signal.
2. (original): The control device as claimed in claim 1, characterized in that the switch (121, 122) of each control stage of the group is a MOS transistor, the gate of which is

the control electrode, the drain is the output electrode, and the source is connected to ground.

3. (currently amended): The control device as claimed in claim 1 ~~or 2~~, characterized in that the conduction re-activate circuit includes a Zener diode (21) connected in such a way as to substantially limit to its Zener voltage the voltage on the bonding pads of each of the control stages of the group.

4. (currently amended): The control device as claimed in ~~any one of the preceding claims~~ claim 1, characterized in that the enabling circuit of each of the control stages includes a Zener diode (181, 182) connected between the output electrode and the control electrode its Zener voltage defines the enabling threshold.

5. (original): The device as claimed in claim 4, characterized in that each control stage additionally includes a selection circuit having a selection input (191, 192), disabling means (151, 152) disabling the application of the conduction re-activate signal from the common conduction re-activate circuit to the control electrode of the switch (121, 122) of this stage when a deselection signal is applied to its selection input, and means for applying a conduction re-activate signal

to the control electrode of this switch when the voltage on the associated control pad reaches the enabling threshold of the associated enabling circuit.

6. (currently amended): The device as claimed in ~~any one of claims 3 to 5~~ claim 3, characterized in that it includes at least one second group of control stages similar to the first group, the Zener diodes of their respective conduction re-activate circuit being connected together in parallel.

7. (original): The device as claimed in claim 6, characterized in that each group of control stages is produced on a separate board.

8. (currently amended): A system including a control device as claimed in ~~any one of the preceding claims~~ claim 1, characterized in that it includes a DC power supply (Vbr), several loads each having a first terminal connected to the bonding pad of an associated control stage, and a second terminal connected to the DC power supply.

9. (original): The system as claimed in claim 8, characterized in that the level of the DC power supply (Vbr) is lower than the enabling threshold of each control stage.

10. (currently amended): The system as claimed in claim 8 ~~or~~ 9, characterized in that several inductive loads are solenoids for actuating an injector needle.

11. (new): The control device as claimed in claim 2, characterized in that the conduction re-activate circuit includes a Zener diode (21) connected in such a way as to substantially limit to its Zener voltage the voltage on the bonding pads of each of the control stages of the group.

12. (new): The control device as claimed in claim 4, characterized in that the enabling circuit of each of the control stages includes a Zener diode (181, 182) connected between the output electrode and the control electrode its Zener voltage defines the enabling threshold.

13. (new): The device as claimed in claim 5, characterized in that each control stage additionally includes a selection circuit having a selection input (191, 192), disabling means (151, 152) disabling the application of the conduction re-activate signal from the common conduction re-activate circuit to the control electrode of the switch (121, 122) of this stage when a deselection signal is applied to its selection input, and means for applying a conduction re-activate signal to the control electrode of this switch when the voltage on the associated control pad reaches the enabling threshold of the associated enabling circuit.

14. (new): The system as claimed in claim 9, characterized in that the level of the DC power supply (V_{br}) is lower than the enabling threshold of each control stage.